Surveying and Engineering Consultants
Digital Data Submission Standards

The City of McCall has developed the digital plat submittal format and data standards contained in this document. The standards were developed to standardize all digital plat submissions and to streamline the integration of this digital information into Geographic Information Systems datasets. Upon receipt of the electronic files, the City of McCall will import the file into their property base map and revise the existing line work around the new parcel. All of the electronic data submitted will not be rotated or scaled to fit the existing basemap. The data will be held as true over the existing line work depicted in the property basemap.

As of March 1, 2006, each plat(s) or subdivision map(s) delivered to the City of McCall required by ordinance or policy will be delivered digitally, in addition to the standard submission medium.

- Digital submittals that do not conform to the guidelines or files not readable by the City of McCall GIS will need to be re-submitted.

- Each applicant will be given two re-submittals to correct technical issues without additional fees. After the second re-submittal the applicant will be billed $85.00 per hour for additional time required by City of McCall GIS to process re-submittals.

The purpose of the digital record plat submittal is to maintain the integrity of City of McCall GIS property base map. Digital submittals will be accepted only if they adhere to the following criteria:

**Digital files**

1. Digital files should be submitted in DXF, DWG, or GIS shape file coverage format. This digital format drawing shall be an exact replica of any required and or included data represented on the submitted hard copy drawing/document.

2. This data must be provided on standard transfer media or by electronic transfer (3-inch floppy disk or CD-ROM or E-mail attachment). The submitted transfer media shall be labeled with the project name (subdivision name, or accepted job name, etc.), filing date, registered land surveyor or professional engineer's name and any other established project identifier.

**Data Standards**

1. All drawings will be constructed in the Idaho State Plane West Coordinate System in feet using the NAD83 Datum and tied to two known monuments. See projection parameters and geodetic control network for further information.

2. Digital linework must be topologically clean. Lines must be geometrically continuous and boundaries must be geometrically closed with no "undershoots" or "dangles" where boundaries intersect. The digital linework must not include "sliver polygons" (gaps or overlaps between properties). All traverse features will be "snapped" closed at intersections. Essentially, the digital version of the map must be of a high precision so that it can be easily converted to a GIS format.
3. All features should be closed polygons (polylines) or annotation (text) with the exception of benchmarks which are point features and road centerlines which are line features.

Layer names, feature types, and descriptions:

Each applicant may utilize unique layer names in lieu of the preferred layer names. Subsequent submittals from the same firm must use the previous layer names.

1. BLDG (Polygon) - All existing building/structure footprint areas.
2. BM (Point) - All benchmark and geodetic monument locations.
3. BSL (Polygon) - All building setback areas.
4. BUFFER (Polygon) - All exclusion areas as required by ordinance(s).
5. COMAREA (Polygon) - All common areas inside the subdivision.
6. AS (Polygon) - All existing and proposed easement areas located either inside or adjacent to the subdivision.
7. ESBWANNO (Annotation) - All text describing Easements, Setbacks, Buffers, and Wetlands.
8. MISCANNO (Annotation) - Any additional (optional) plat text not included in the other required annotation layers defined in these standards.
9. PARCEL (Polygon) - All parcel boundary areas within the subdivision.
10. PARCELANNO (Annotation) - All new PINS, lot numbers and street addresses for subdivision lots (individual or tabular).
11. ROW (Polygon) - All existing and new road and drainage right-of-way areas, located either inside or adjacent to the subdivision.
12. ROWANNO (Annotation) - All existing and new street names and right-of-way widths.
13. SUBDIV (Polygon) - Subdivision boundary areas.
14. SURVEYANNO (Annotation) - All survey data (bearings, distances, curve data, tie lines, etc.).
15. WETLAND (Polygon) - All existing delineated wetland areas either inside or adjacent to the subdivision (see Figure I).

Projection Parameters

Projection NAD-1 983-StatePlane-Idaho-WestF1PSS1 103-Feet
GCS GCS-North-American-1983
Datum D-North-AmericaCl983
Spheroid GRS-1980 6378137,298.257222101
Prime Meridian Greenwich 0
Unit Degree 0.0174532925199432955
Projection Type Transverse-Mercator
False Easting 2624666.666666666
False Northing 0
Central Meridian -1 15.75
Scale Factor 0.9999333333333333
Latitude Of Origin 4.166666666666666
Unit Foot-US, 0.304800609601219241
CH2M HILL used high precision GPS equipment to establish positional information for 16 Public Land Survey locations around the City of McCall, Idaho. Coordinates are based on the Idaho State Plane West NAD83 Feet projection.

Public Land Survey descriptions are based on the Boise Meridian. See attached map.

**Projected Coordinate System:** NAD_1983_StatePlane_Idaho_West_FIPS_1103_Feet  
**Projection:** Transverse_Mercator  
**False_Easting:** 2624666.6666667  
**False_Northing:** 0.00000000  
**Central_Meridian:** -115.75000000  
**Scale_Factor:** 0.99993333  
**Latitude_Of_Origin:** 41.66666667  
**Linear Unit:** Foot_US

**Geographic Coordinate System:** GCS_North_American_1983  
**Datum:** D_North_American_1983  
**Prime Meridian:** Greenwich  
**Angular Unit:** Degrees

### Geodetic Control Points

<table>
<thead>
<tr>
<th>Name</th>
<th>ID</th>
<th>Northing</th>
<th>Easting</th>
<th>Ortho</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1/4 cnr 17 &amp; 16</td>
<td>1,177,846.77416</td>
<td>2,532,418.33580</td>
<td>5,018.07395</td>
</tr>
<tr>
<td>3</td>
<td>sec cnr 2 3 10 11</td>
<td>1,185,738.03218</td>
<td>2,543,055.03327</td>
<td>5,037.45384</td>
</tr>
<tr>
<td>4</td>
<td>1/4 cnr 4 &amp; 3</td>
<td>1,188,400.18920</td>
<td>2,537,791.79664</td>
<td>5,022.91318</td>
</tr>
<tr>
<td>5</td>
<td>C1/4 sec 15</td>
<td>1,177,819.29675</td>
<td>2,540,396.21809</td>
<td>5,135.41624</td>
</tr>
<tr>
<td>6</td>
<td>twnp line 1 2 35 36</td>
<td>1,191,127.56210</td>
<td>2,516,332.88609</td>
<td>5,107.82771</td>
</tr>
<tr>
<td>7</td>
<td>1/4 cnr 6 &amp; 5</td>
<td>1,188,435.38049</td>
<td>2,527,075.84029</td>
<td>5,047.26353</td>
</tr>
<tr>
<td>9</td>
<td>FND BCM NE SEC 29</td>
<td>1,169,907.13500</td>
<td>2,532,347.15900</td>
<td>4,997.74000</td>
</tr>
<tr>
<td>10</td>
<td>FND BCM NE SEC. 20</td>
<td>1,175,199.25400</td>
<td>2,532,397.43700</td>
<td>5,004.13000</td>
</tr>
<tr>
<td>14</td>
<td>FND BCM NE SEC. 17</td>
<td>1,180,491.21100</td>
<td>2,532,457.11200</td>
<td>5,034.38000</td>
</tr>
<tr>
<td>15</td>
<td>FND ACM E 1/4 SEC 22</td>
<td>1,172,523.99700</td>
<td>2,543,014.98500</td>
<td>5,106.32000</td>
</tr>
<tr>
<td>16</td>
<td>FND BCM NE SEC. 28</td>
<td>1,169,910.69500</td>
<td>2,537,684.48100</td>
<td>5,122.12000</td>
</tr>
<tr>
<td>20</td>
<td>qtr_cnr-9&amp;10</td>
<td>1,183,113.82308</td>
<td>2,537,780.44104</td>
<td>5,053.17887</td>
</tr>
<tr>
<td>21</td>
<td>ne16th_s18</td>
<td>1,179,187.08974</td>
<td>2,525,740.89667</td>
<td>5,050.10145</td>
</tr>
<tr>
<td>22</td>
<td>south_qtr_s3</td>
<td>1,185,739.71707</td>
<td>2,540,424.22911</td>
<td>5,026.17433</td>
</tr>
<tr>
<td>23</td>
<td>se_16th_s12</td>
<td>1,181,851.37839</td>
<td>2,520,331.81151</td>
<td>5,065.49184</td>
</tr>
<tr>
<td>24</td>
<td>1&amp;12_6&amp;7_twp_line</td>
<td>1,185,831.05184</td>
<td>2,521,642.13452</td>
<td>5,115.59672</td>
</tr>
</tbody>
</table>